



RAW SEQUENCE LISTING ERROR REPORT

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Application Serial Number: US/10/658,355
Source: OIPC
Date Processed by STIC: 9-22-03

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2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A
NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT
MARK SPENCER, 703-308-4212.

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Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
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Revised 04/24/2003



OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/658,355

DATE: 09/22/2003
TIME: 13:32:53

Input Set : E:\923seq.001
Output Set: N:\CRF4\09222003\J658355.raw

3 <110> APPLICANT: Gantier, Rene
4 Guyon, Thierry
5 Hugo, Cruz Ramos
6 Vega, Manuel
7 Drittanti, Lila
9 <120> TITLE OF INVENTION: Rational Directed Protein Evolution Using Two Dimensional Rational
10 Mutagenesis Scanning
12 <130> FILE REFERENCE: 38751-923
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/658,355
C--> 15 <141> CURRENT FILING DATE: 2003-09-08
17 <150> PRIOR APPLICATION NUMBER: 60/457,063
W--> 18 <151> PRIOR FILING DATE: 21-MAR-2003 ~~→ year-month~~ Does Not Comply
20 <150> PRIOR APPLICATION NUMBER: 60/410,258
W--> 21 <151> PRIOR FILING DATE: 09-SEP-2002 ~~→ year-month-day~~ Corrected Diskette Needed
23 <160> NUMBER OF SEQ ID NOS: 501
24 <170> SOFTWARE: FastSEQ for Windows Version 4.0

ERRORED SEQUENCES

5925 <210> SEQ ID NO: 192
5926 <211> LENGTH: 80
5927 <212> TYPE: DNA
5928 <213> ORGANISM: Artificial Sequence
5930 <220> FEATURE:
5931 <223> OTHER INFORMATION: IFN alpha-2b 80 bp 5' Primer
5933 <400> SEQUENCE: 192
5934 cccaaagctta tggccttgc ac tttgcttta ctgggtggccc tcctggtgct cagctgcaag 60
E--> 5935 tcaagctgct ctgtgggctq 80
11447 <210> SEQ ID NO: 387
11448 <211> LENGTH: 166
11449 <212> TYPE: PRT
11450 <213> ORGANISM: Homo sapiens
E--> 11452 <400> SEQUENCE: 397-387 different sequence numbers
11453 Met Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln
11454 1 5 10 15
11455 Cys Gln Lys Leu Leu Trp Gln Asp Asn Gly Arg Leu Glu Tyr Cys Leu
11456 20 25 30
11457 Lys Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln
11458 35 40 45
11459 Gln Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln
11460 50 55 60
11461 Asn Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Thr Gly Trp Asn

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11462 65 70 75 80
11463 Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn
11464 85 90 95
11465 His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Lys Glu Asp Phe Thr
11466 100 105 110
11467 Arg Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg
11468 115 120 125
11469 Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr
11470 130 135 140
11471 Ile Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu
11472 145 150 155 160
11473 Thr Gly Tyr Leu Arg Asn
11474 165
13506 <210> SEQ ID NO: 458
13507 <211> LENGTH: 166
13508 <212> TYPE: PRT
13509 <213> ORGANISM: Homo sapiens

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13512 Met Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln
13513 1 5 10 15
13514 Cys Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu
13515 20 25 30
13516 Lys Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln
13517 35 40 45
13518 Gln Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln
13519 50 55 60
13520 Asn Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Asn
13521 65 70 75 80
13522 Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Lys Asn
13523 85 90 95
13524 His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Lys Glu Asp Phe Thr
13525 100 105 110
13526 Arg Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg
13527 115 120 125
13528 Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr
13529 130 135 140
13530 Ile Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu
13531 145 150 155 160
13532 Thr Gly Tyr Leu Arg Asn
13533 165

13535 <210> SEQ ID NO: 459
13536 <211> LENGTH: 166
13537 <212> TYPE: PRT
13538 <213> ORGANISM: Homo sapiens

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13543 Cys Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu
13544 20 25 30

RAW SEQUENCE LISTING
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Input Set : E:\923seq.001
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13545 Lys Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln
13546 35 40 45
13547 Gln Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln
13548 50 55 60
13549 Asn Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Asn
13550 65 70 75 80
13551 Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Asn Asn
13552 85 90 95
13553 His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Lys Glu Asp Phe Thr
13554 100 105 110
13555 Arg Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg
13556 115 120 125
13557 Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr
13558 130 135 140
13559 Ile Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu
13560 145 150 155 160
13561 Thr Gly Tyr Leu Arg Asn
13562 165

E--> 14289 <210> SEQ ID NO: 385 → 485

14290 <211> LENGTH: 166

14291 <212> TYPE: PRT

14292 <213> ORGANISM: Homo sapiens

E--> 14294 <400> SEQUENCE. 185

>different sequence
number

14295 Met Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln
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14297 Cys Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu
14298 20 25 30
14299 Lys Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln
14300 35 40 45
14301 Gln Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln
14302 50 55 60
14303 Asn Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Asn
14304 65 70 75 80
14305 Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn
14306 85 90 95
14307 His Leu Lys Thr Arg Leu Glu Glu Lys Leu Glu Lys Glu Asp Phe Thr
14308 100 105 110
14309 Arg Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg
14310 115 120 125
14311 Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr
14312 130 135 140
14313 Ile Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu
14314 145 150 155 160
14315 Thr Gly Tyr Leu Arg Asn
14316 165

E--> 14318 <210> SEQ ID NO: 486

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/658,355

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Input Set : E:\923seq.001
Output Set: N:\CRF4\09222003\J658355.raw .

L:14 M:270 C: Current Application Number differs, Replaced Current Application Number
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:18 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:21 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:5935 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:80 SEQ:192
L:5967 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:5971 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:195
L:5975 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:195
L:5976 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:195 after pos.:0
L:11452 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:387 differs:397
L:13511 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:458 differs:358
L:13540 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:459 differs:359
L:14289 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO: 385
L:14294 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:385 differs:485
L:14318 M:216 E: (34) Seq.#s missing, SEQ ID NOS: 386 thru 485